

CLAIMS:

1. Body for a motor vehicle, particularly a passenger car of the sports car type, having a windshield frame, a rollover bar system and a dimensionally stable removable roof which covers an area between the windshield frame and the rollover bar system, ~~characterized in that~~wherein the ~~dimensionally stable roof (5),~~ on the one side, follows a convex shaping course ~~(Fkx)~~ of the windshield frame ~~(3)~~ and, on the other side, follows a shaping course ~~(Fkx/kv)~~ of the rollover bar system ~~(4)~~, which shaping course ~~(Fkx.kv)~~ ~~consists of~~ includes convexly shaped sections ~~(13 and 14)~~ and ~~of a~~ concavely shaped section ~~(15)~~ and therefore has a ~~defined~~ a shaped structure such that, viewed in the longitudinal direction ~~(B-B)~~ of the passenger car ~~(1)~~, the roof, at least in areas, has two lateral roof sections ~~(17 and 18)~~ and a center roof section ~~(19)~~ which extends between the lateral roof sections ~~(17 and 18)~~ in the manner of a crease-type indentation ~~(20)~~ shaped in the direction of the vehicle occupant compartment ~~(6)~~.

2. Body according to Claim 1, ~~characterized in that~~wherein, in a cross-sectional view of the roof ~~(5)~~, the lateral roof sections ~~(17 and 18)~~ between the windshield frame ~~(3)~~ and the rollover bar system ~~(4)~~ are constructed as curvatures ~~(WI and WII)~~, and the center roof

section ~~(19)~~ is constructed as a plane ~~(E)~~ situated in-between.

3. Body according to claim 2 ~~one or more of the preceding claims,~~  
~~characterized in that~~ wherein, in the top view of the roof ~~(5)~~,  
visible contour lines ~~(22 and 23)~~ extending in the longitudinal  
direction ~~(B-B)~~ of the vehicle are provided between the lateral  
roof sections ~~(17 and 18)~~ and the center roof section ~~(19)~~.

4. Body according to Claims 1 ~~and 2~~,  
~~characterized in that~~ wherein the indentation ~~(20)~~ increases  
continuously between the windshield frame and the rollover bar  
system ~~(4)~~.

5. Body according to Claim 2,  
wherein the indentation increases continuously between the  
windshield frame and the rollover bar system.

~~65.~~ Body according to claim 1, wherein the ~~having a~~  
rollover bar system ~~with~~ has two individual rollover bars which  
are spaced in the transverse direction of the vehicle and have  
upright legs, ~~according to one or more of the preceding claims,~~  
~~characterized in that~~ mutually facing legs ~~(26 and 28)~~ of the  
individual rollover bars ~~(24 and 25)~~ are supported by means of a  
cross member ~~(32)~~, and the center roof section ~~(19)~~ of the roof

~~(5) extending~~ extends along the cross member ~~(32)~~.

76. Body according to claim 6 ~~one or more of the preceding~~  
~~claims,~~  
~~characterized in that~~ wherein the individual rollover bars ~~(24 and~~  
~~25)~~, the cross member ~~(32)~~ and vehicle body walls ~~(34, 35 and 36)~~  
bound openings ~~(37, 38 and 39)~~, into which the viewing panes ~~(40,~~  
~~41 and 42)~~ are inserted.

87. Body according to claim 6 ~~one or more of the preceding~~  
~~claims,~~  
~~characterized in that~~ wherein the individual rollover bars ~~(24 and~~  
~~25)~~ and the cross member ~~(32)~~ consist of a high-strength  
material, ~~for example, a carbon-fiber-reinforced plastic~~  
~~material.~~

9. Body according to claim 8,  
wherein the high strength material is a carbon-fiber-reinforced  
plastic material.

108. Body according to Claim 87,  
~~characterized in that~~ wherein the individual rollover bars ~~(24 and~~  
~~25)~~ and the cross member ~~(32)~~ are integrated into a vehicle body  
structure ~~(33)~~ which consists of a high-strength material, ~~such~~  
~~as a carbon-fiber-reinforced plastic material.~~

11. Body according to claim 10,  
wherein the high strength material is a carbon-fiber-reinforced  
plastic material.

129. Body according to claim 1~~one or more of the preceding~~  
~~claims,~~  
~~characterized in that~~wherein the roof (5) ~~consists of~~ includes  
two roof elements (7) ~~fitted together~~ in a longitudinal center  
plane (A-A) of the passenger car (1).

1310. Body according to Claim 912,  
~~characterized in that~~wherein each roof element (7 ~~or 8~~) consists  
of a high-strength material, ~~such as a glass-fiber-reinforced~~  
~~plastic material.~~

14. Body according to claim 13,  
wherein the high strength material is a glass-fiber-reinforced  
plastic material.

15. (New) A body for a motor vehicle having a windshield frame, and rollover bar system, comprising:

a removable roof which covers an area between the windshield frame and the rollover bar system, wherein

the roof (5) is dimensionally stable,

a front edge of the roof (5) follows a contour (F<sub>kx</sub>) of the windshield frame (3),

a rear edge of the roof (5) follows a contour (F<sub>kx/kv</sub>) of the rollover bar system (4), wherein the rollover bar system contour (F<sub>kx.kv</sub>) includes convexly shaped sections (13 and 14) and a concavely shaped section (15), and

at least a rear portion of the roof (5) has two lateral roof sections (17 and 18) and a center indented roof section (19) extending between the lateral roof sections (17 and 18).

16. (New) The body of Claim 15, wherein

the lateral roof sections (17 and 18) are curved (WI and WII), and the center roof section (19) is a plane (E).

17. (New) The body of claims 16, wherein

visible contour lines (22 and 23) extending in the longitudinal direction (B-B) of the vehicle are provided between the lateral roof sections (17 and 18) and the center roof section (19).

18. (New) The body of claim 15, wherein  
the indentation (20) of the center roof section (19) increases continuously  
between the windshield frame and the rollover bar system (4).

19. (New) The body of claim 16, wherein  
the indentation (20) of the center roof section (19) increases continuously  
between the windshield frame and the rollover bar system (4).

20. (New) The body of claim 1, wherein  
the rollover bar system has two individual rollover bars which are spaced in  
the transverse direction of the vehicle and have upright legs,  
the upright legs (26 and 28) of the individual rollover bars (24 and 25) are  
supported by a cross member (32), and  
the center roof section (19) extends along the cross member (32).

21. (New) The body of claim 20, wherein the individual rollover bars are  
located over at least one vehicle body wall, further comprising:  
viewing panes located within openings defined by the individual rollover bars  
(24 and 25), the cross member (32) and the at least one vehicle body wall (34, 35 and  
36).

22. (New) The body of claim 20, wherein  
wherein the individual rollover bars (24 and 25) and the cross member (32)  
are formed from a high-strength material.

23. (New) The body of claim 21, wherein  
the high-strength material is a carbon-fiber-reinforced plastic material.

24. (New) The body of claim 21, wherein  
the individual rollover bars (24 and 25) and the cross member (32) are  
integrated into a vehicle body structure (33) formed from a high-strength material.

25. (New) The body of claim 24, wherein  
the high-strength material is a carbon-fiber-reinforced plastic material.

26. (New) The body of claim 15, wherein  
the roof (5) includes two roof elements (7) fitted together in a longitudinal  
center plane (A-A) of the motor vehicle (1).

27. (New) The body of claim 27, wherein  
each roof element (7 or 8) is formed from a high-strength material.

28. (New) The body of claim 28, wherein

the high strength material is a glass-fiber-reinforced plastic material.